Grade 7
Distance Learning Module 1: Week of: 3/30/2020 - 4/3/2020

Grade 7 CTE - *Modified from* Introduction to Robotics Engineering

Targeted Goals from Stage 1: Desired Results

- Engineers often work cooperatively in teams to accomplish a goal.

Content Knowledge: Tele-operated, autonomous, and hybrid are all methods to control robots.

Vocabulary: tele-operated, autonomous, hybrid, and robotics engineering.

Skills: Build a robot using plans and a system of unified parts and components.

Expectation: Students will be given a general overview of Robotics Engineering and all its different avenues of focus.

Description of Task (s):	Resources and Materials:	Daily Checks
Monday: ● Review our class expectations posted in Google Classroom. ● Students will watch an introductory video about robotics engineering.	● Google Classroom - Students must join the class. ● Interview with a Robotics Engineer	● Students will be asked to "Turn In" a ***Day 1*** Google Doc via Google Classroom.
Tuesday: ● Look at more real-life examples of service robots. ○ Roomba & Marty (from S & S)	● Roomba ● Marty	● Students will be asked to "Turn In" a ***Day 2*** Google Doc via Google Classroom.
Wednesday: ● Look at military-based robots. ○ Boston Dynamics	● Boston Dynamics - TEDTalk ● Boston Dynamics website	● Students will be asked to "Turn In" a ***Day 3*** Google Doc via Google Classroom.
Thursday: ● Look at ocean-based robots and medical-based robots.	● Deep-Sea Robots ● Surgical Robots ● Nursing Robot	● Students will be asked to "Turn In" a ***Day 4*** Google Doc via Google Classroom.
Friday: ● Look at manufacturing-based robots.	● Automation Nation ● Amazon Fulfillment Center Robots ● Manufacturing Robots @ Audi ● Elon Musk - Tesla	● Students will be asked to "Turn In" a ***Day 5*** Google Doc via Google Classroom.

Week criteria for success (attach student checklists or rubrics):

Robotics Video Checklist

Supportive resources and tutorials for the week (plans for re-teaching):

VEX IQ Curriculum